

## SEQUENCE LISTING

<110> Hooft Van Huijsduijnen, Rob  
Walchli, Sebastien

<120> Use of protein tyrosine phosphatase inhibitors for prevention and/or  
treatment of cancer

<130> SLII-P01-003

<140> US 10/530,106

<141> 2003-09-29

<150> EP 02022227.9

<151> 2002-10-02

<160> 34

<170> PatentIn version 3.1

<210> 1

<211> 1115

<212> PRT

<213> Homo sapiens

<400> 1

Met Ala Gly Ala Gly Gly Gly Leu Gly Val Trp Gly Asn Leu Val Leu  
1 5 10 15

Leu Gly Leu Cys Ser Trp Thr Gly Ala Arg Ala Pro Ala Pro Asn Pro  
20 25 30

Gly Arg Asn Leu Thr Val Glu Thr Gln Thr Thr Ser Ser Ile Ser Leu  
35 40 45

Ser Trp Glu Val Pro Asp Gly Leu Asp Ser Gln Asn Ser Asn Tyr Trp  
 50 55 60

Val Gln Cys Thr Gly Asp Gly Gly Thr Thr Glu Thr Arg Asn Thr Thr  
 65 70 75 80

Ala Thr Asn Val Thr Val Asp Gly Leu Gly Pro Gly Ser Leu Tyr Thr  
 85 90 95

Cys Ser Val Trp Val Glu Lys Asp Gly Val Asn Ser Ser Val Gly Thr  
 100 105 110

Val Thr Thr Ala Thr Ala Pro Asn Pro Val Arg Asn Leu Arg Val Glu  
 115 120 125

Ala Gln Thr Asn Ser Ser Ile Ala Leu Thr Trp Glu Val Pro Asp Gly  
 130 135 140

Pro Asp Pro Gln Asn Ser Thr Tyr Gly Val Glu Tyr Thr Gly Asp Gly  
 145 150 155 160

Gly Arg Ala Gly Thr Arg Ser Thr Ala His Thr Asn Ile Thr Val Asp  
 165 170 175

Gly Leu Glu Pro Gly Cys Leu Tyr Ala Phe Ser Met Trp Val Gly Lys  
 180 185 190

Asn Gly Ile Asn Ser Ser Arg Glu Thr Arg Asn Ala Thr Thr Ala His  
 195 200 205

Asn Pro Val Arg Asn Leu Arg Val Glu Ala Gln Thr Thr Ser Ser Ile  
 210 215 220

Ser Leu Ser Trp Glu Val Pro Asp Gly Thr Asp Pro Gln Asn Ser Thr  
 225 230 235 240

Tyr Cys Ile Gln Cys Thr Gly Asp Gly Gly Arg Thr Glu Thr Arg Asn  
 245 250 255

Thr Thr Asp Thr Arg Val Thr Val Asp Gly Leu Gly Pro Gly Ser Leu  
 260 265 270

Tyr Thr Cys Ser Val Trp Val Glu Lys Asp Gly Val Asn Ser Ser Val  
 275 280 285

Glu Ile Val Thr Ser Thr Thr Ala Pro Asn Pro Val Arg Asn Leu Thr  
 290 295 300

Val Glu Ala Gln Thr Asn Ser Ser Ile Ala Leu Thr Trp Glu Val Pro  
 305 310 315 320

Asp Gly Pro Asp Pro Gln Asn Ser Thr Tyr Gly Val Glu Tyr Thr Gly  
 325 330 335

Asp Gly Gly Arg Ala Gly Thr Arg Ser Thr Ala His Thr Asn Ile Thr  
 340 345 350

Val Asp Arg Leu Glu Pro Gly Cys Leu Tyr Val Phe Ser Val Trp Val  
 355 360 365

Gly Lys Asn Gly Ile Asn Ser Ser Arg Glu Thr Arg Asn Ala Thr Thr  
 370 375 380

Ala Pro Asn Pro Val Arg Asn Leu His Met Glu Thr Gln Thr Asn Ser  
 385 390 395 400

Ser Ile Ala Leu Cys Trp Glu Val Pro Asp Gly Pro Tyr Pro Gln Asp  
 405 410 415

Tyr Thr Tyr Trp Val Glu Tyr Thr Gly Asp Gly Gly Gly Thr Glu Thr  
 420 425 430

Arg Asn Thr Thr Asn Thr Ser Val Thr Ala Glu Arg Leu Glu Pro Gly  
 435 440 445

Thr Leu Tyr Thr Phe Ser Val Trp Ala Glu Lys Asn Gly Ala Arg Gly  
 450 455 460

Ser Arg Gln Asn Val Ser Ile Ser Thr Val Pro Asn Ala Val Thr Ser  
 465 470 475 480

Leu Ser Lys Gln Asp Trp Thr Asn Ser Thr Ile Ala Leu Arg Trp Thr  
 485 490 495

Ala Pro Gln Gly Pro Gly Gln Ser Ser Tyr Ser Tyr Trp Val Ser Trp  
 500 505 510

Val Arg Glu Gly Met Thr Asp Pro Arg Thr Gln Ser Thr Ser Gly Thr  
 515 520 525

Asp Ile Thr Leu Lys Glu Leu Glu Ala Gly Ser Leu Tyr His Leu Thr  
 530 535 540

Val Trp Ala Glu Arg Asn Glu Val Arg Gly Tyr Asn Ser Thr Leu Thr  
 545 550 555 560

Ala Ala Thr Ala Pro Asn Glu Val Thr Asp Leu Gln Asn Glu Thr Gln  
 565 570 575

Thr Lys Asn Ser Val Met Leu Trp Trp Lys Ala Pro Gly Asp Pro His  
 580 585 590

Ser Gln Leu Tyr Val Tyr Trp Val Gln Trp Ala Ser Lys Gly His Pro  
 595 600 605

Arg Arg Gly Gln Asp Pro Gln Ala Asn Trp Val Asn Gln Thr Ser Arg  
 610 615 620

Thr Asn Glu Thr Trp Tyr Lys Val Glu Ala Leu Glu Pro Gly Thr Leu  
 625 630 635 640

Tyr Asn Phe Thr Val Trp Ala Glu Arg Asn Asp Val Ala Ser Ser Thr  
 645 650 655

Gln Ser Leu Cys Ala Ser Thr Tyr Pro Asp Thr Val Thr Ile Thr Ser  
 660 665 670

Cys Val Ser Thr Ser Ala Gly Tyr Gly Val Asn Leu Ile Trp Ser Cys  
 675 680 685

Pro Gln Gly Gly Tyr Glu Ala Phe Glu Leu Glu Val Gly Gly Gln Arg  
 690 695 700

Gly Ser Gln Asp Arg Ser Ser Cys Gly Glu Ala Val Ser Val Leu Gly  
705 710 715 720

Leu Gly Pro Ala Arg Ser Tyr Pro Ala Thr Ile Thr Thr Ile Trp Asp  
725 730 735

Gly Met Lys Val Val Ser His Ser Val Val Cys His Thr Glu Ser Ala  
740 745 750

Gly Val Ile Ala Gly Ala Phe Val Gly Ile Leu Leu Phe Leu Ile Leu  
755 760 765

Val Gly Leu Leu Ile Phe Phe Leu Lys Arg Arg Asn Lys Lys Lys Gln  
770 775 780

Gln Lys Pro Glu Leu Arg Asp Leu Val Phe Ser Ser Pro Gly Asp Ile  
785 790 795 800

Pro Ala Glu Asp Phe Ala Asp His Val Arg Lys Asn Glu Arg Asp Ser  
805 810 815

Asn Cys Gly Phe Ala Asp Glu Tyr Gln Gln Leu Ser Leu Val Gly His  
820 825 830

Ser Gln Ser Gln Met Val Ala Ser Ala Ser Glu Asn Asn Ala Lys Asn  
835 840 845

Arg Tyr Arg Asn Val Leu Pro Tyr Asp Trp Ser Arg Val Pro Leu Lys  
850 855 860

Pro Ile His Glu Glu Pro Gly Ser Asp Tyr Ile Asn Ala Ser Phe Met  
865 870 875 880

Pro Gly Leu Trp Ser Pro Gln Glu Phe Ile Ala Thr Gln Gly Pro Leu  
885 890 895

Pro Gln Thr Val Gly Asp Phe Trp Arg Leu Val Trp Glu Gln Gln Ser  
900 905 910

His Thr Leu Val Met Leu Thr Asn Cys Met Glu Ala Gly Arg Val Lys

915

920

925

Cys Glu His Tyr Trp Pro Leu Asp Ser Gln Pro Cys Thr His Gly His  
 930 935 940

Leu Arg Val Thr Leu Val Gly Glu Glu Val Met Glu Asn Trp Thr Val  
 945 950 955 960

Arg Glu Leu Leu Leu Leu Gln Val Glu Glu Gln Lys Thr Leu Ser Val  
 965 970 975

Arg Gln Phe His Tyr Gln Ala Trp Pro Asp His Gly Val Pro Ser Ser  
 980 985 990

Pro Asp Thr Leu Leu Ala Phe Trp Arg Met Leu Arg Gln Trp Leu Asp  
 995 1000 1005

Gln Thr Met Glu Gly Gly Pro Pro Ile Val His Cys Ser Ala Gly  
 1010 1015 1020

Val Gly Arg Thr Gly Thr Leu Ile Ala Leu Asp Val Leu Leu Arg  
 1025 1030 1035

Gln Leu Gln Ser Glu Gly Leu Leu Gly Pro Phe Ser Phe Val Arg  
 1040 1045 1050

Lys Met Arg Glu Ser Arg Pro Leu Met Val Gln Thr Glu Ala Gln  
 1055 1060 1065

Tyr Val Phe Leu His Gln Cys Ile Leu Arg Phe Leu Gln Gln Ser  
 1070 1075 1080

Ala Gln Ala Pro Ala Glu Lys Glu Val Pro Tyr Glu Asp Val Glu  
 1085 1090 1095

Asn Leu Ile Tyr Glu Asn Val Ala Ala Ile Gln Ala His Lys Leu  
 1100 1105 1110

Glu Val  
 1115

<210> 2  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Primer

<400> 2  
ccagctcacc atggatgatg

20

<210> 3  
<211> 22  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Primer

<400> 3  
ccttaatgtc acgcacgatt tc

22

<210> 4  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Primer

<400> 4  
catgctgacc aactgcatgg

20

<210> 5

<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Primer

<400> 5  
gcgagtccag aggccagtaa

20

<210> 6  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Primer

<400> 6  
gcgagtccag aggccagtaa

20

<210> 7  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Primer

<400> 7  
catgctgacc aactgcatgg

20

<210> 8



<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 8

gatgggattt ccattgatga ca

22

<210> 9

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 9

ccacccatgg caaattcc

18

<210> 10

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 10

cctagtccca gggctttgat t

21

<210> 11

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 11  
ctgtgctccc actcctgatt tc

22

<210> 12

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide

<400> 12

Thr	Ser	Thr	Glu	Pro	Gln	Tyr	Gln	Pro	Gly	Glu	Asn	Leu
1				5					10			

<210> 13

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide

<400> 13

Phe	Phe	Thr	Ala	Thr	Glu	Gly	Gln	Tyr	Gln	Pro	Gln	Pro
1				5					10			

<210> 14

<211> 47

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 14

tacccatagc acgtcccaga ctacgctcac accgagagtg caggggt

47

<210> 15

<211> 49

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 15

agcgtagtct gggacgtcgt atgggtaggg ggcaggcgcc ctggcccct

49

<210> 16

<211> 58

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 16

tactcgagtt aagcgtagtc tgggacgtcg tatgggtaga cctccaactt gtgggcct

58

<210> 17

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 17

atgaattcag cggcccatct ggctgcctct ttctcaggaa gaaaatca

48

<210> 18

<211> 71

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 18

ataagcttac catgggctgt ggctgcagct cacacccgga agatgactgg aagaggagga

60

ataagaagaa g

71

<210> 19

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 19

ctctgtggtc agccacaccg agagt

25

<210> 20  
<211> 25  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Primer

<400> 20  
ctcgggtgtgg ctgaccacag agtga

25

<210> 21  
<211> 25  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Primer

<400> 21  
gcctggccgg ctcacggcgt tccct

25

<210> 22  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Primer

<400> 22  
aacgccgtga gccggccagg

20

<210> 23

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 23

cgagaaggaa gtcccgtttg aggat

25

<210> 24

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 24

catcctcaaa cgggacttcc ttctc

25

<210> 25

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 25

tgtcgaaaac ctcacattcg agaac

25

<210> 26

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 26  
cggccacggt ctcgaagatg aggtt

25

<210> 27

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 27  
agttccagcc cggggagAAC ctc

23

<210> 28

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 28  
gaggttctcc ccgggctgga act

23

<210> 29

<211> 21

<212> DNA

<213> Artificial sequence

<220>

<223> Primer

<400> 29

ccagccatgc ctccagacac t

21

<210> 30

<211> 21

<212> DNA

<213> Artificial sequence

<220>

<223> Primer

<400> 30

tgccacact caagcaccct g

21

<210> 31

<211> 20

<212> DNA

<213> Artificial sequence

<220>

<223> Primer

<400> 31

tgacccgggt ccaaggccat

20

<210> 32

<211> 20



<212> DNA

<213> Artificial sequence

<220>

<223> Primer

<400> 32  
gcgcgctagc cacttcggaa

20

<210> 33

<211> 20

<212> DNA

<213> Artificial sequence

<220>

<223> Primer

<400> 33  
tggtgtctgt tgtgtttcga

20

<210> 34

<211> 20

<212> DNA

<213> Artificial sequence

<220>

<223> Primer

<400> 34  
agggtcggtt ttttggttct

20